HOOK-UP WIRE
TFE TEFLON® INSULATION

MIL-W-16878E (TYPE E)††, 200°C/600V
UL 1213, 105°C/VOLTAGE NOT SPECIFIED
RoHS COMPLIANT

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Certified Performance – High-Reliability TFE Teflon® Insulation

Alpha's TFE Teflon wire family includes a full range of sizes, colors, conductor types and voltage ratings for both commercial (UL styles) and high reliability military OEM products.

Alpha's TFE Teflon is rated for continuous operation in temperatures from –60°C to 200°C (UL: 105°C) and retains its exceptional toughness and flexibility within this range. TFE Teflon is not degraded by chemicals which makes it ideal for use in harsh environments. Teflon is widely regarded as the ultimate high performance wire insulation material for environments characterized by extreme thermal or chemical conditions.

Choose TFE Teflon® For:

- Resistance To All Chemicals
- High Temperature Use Up To 200°C (UL: 105°C)
- Low Coefficient of Friction
- Outstanding Electrical Properties

TFE Teflon® Applications:

- Military Harnessing
- Medical Electronics
- Power Supply Lead Wire
- Appliance Wiring

Characteristics

OPERATING TEMPERATURE:

- –60°C to 200°C (UL: 105°C)

VOLTAGE RATING:

- 600 Volt (UL: Voltage Not Specified)

PRODUCT DESCRIPTION:

- Conductor: Stranded or Solid Silver-Plated Copper
- Insulation: Color-Coded, Extruded TFE Teflon

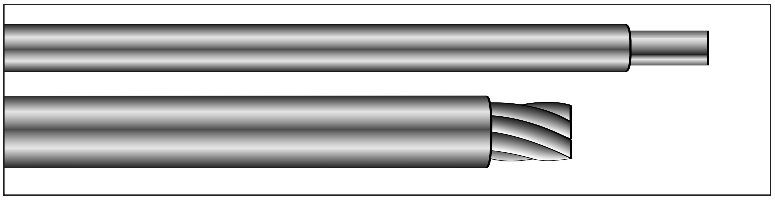
Specifications

- UL AWM Style 1213
- MIL-W-16878E Type E
- RoHS Compliant

Recognized Component Underwriters Laboratories Inc. | Passes UL VW-1 Flame Test Underwriters Laboratories Inc. | RoHS Compliant

Availability

- 100 ft (30,5m), 1000 ft (305m) put-ups
  1000 ft put-ups may contain multiple lengths



STRANDED CONDUCTOR

Alpha Part No.	Type Designation	Conductor AWG	Conductor Strand	Insul. Thickness Inches	Insul. Thickness mm	Diameter Inches	Diameter mm	Stock Color*
5851	E-30	30	7/38	0.010	0,25	0.032	0,81	1–10
5852	E-28	28	7/36	0.010	0,25	0.036	0,91	1–10
5853	E-26	26	7/34	0.010	0,25	0.040	1,02	1–10
5853/19	E-26	26	19/38	0.010	0,25	0.041	1,04	1–10
5854	E-24	24	19/36	0.010	0,25	0.045	1,14	1–10
5854/7	E-24	24	7/32	0.010	0,25	0.044	1,12	1–10
5855	E-22	22	19/34	0.010	0,25	0.051	1,30	1–10
5855/7	E-22	22	7/30	0.010	0,25	0.055	1,27	1–10
5856	E-20	20	19/32	0.010	0,25	0.059	1,50	1–10
5856/7	E-20	20	7/28	0.010	0,25	0.058	1,47	1–10
5857	E-18	18	19/30	0.010	0,25	0.070	1,78	1–10
5858	E-16	16	19/29	0.010	0,25	0.077	1,96	1–10
5859†	E-14	14	19/27	0.012	0,30	0.094	2,39	1
5859/12†	E-12	12	19/25	0.012	0,30	0.113	2,87	1
5859/10†	E-10	10	37/26	0.012	0,30	0.134	3,40	1

*See color chart below

SOLID CONDUCTOR

Alpha Part No.	Conductor AWG	Insul. Thickness Inches	Insul. Thickness mm	Diameter Inches	Diameter mm	Stock Color*
2853/1	26	0.010	0,25	0.036	0,91	1–10
2854/1	24	0.010	0,25	0.040	1,02	1–10
2855/1	22	0.010	0,25	0.045	1,14	1–10
2856/1	20	0.010	0,25	0.052	1,32	1–3
2857/1	18	0.010	0,25	0.060	1,52	1–3

*See color chart below

†Not UL AWM Style 1213
††All product supplied is to the MIL-W-16878 E revision. Revision F product can be supplied upon request, subject to minimum order quantity and lead time requirements.

Teflon® is a registered trademark of E.I. DuPont

*STOCK COLOR CHART				
1–White	3–Red	5–Yellow	7–Brown	9–Gray
2–Black	4–Green	6–Blue	8–Orange	10–Violet (purple)